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## 1. INTRODUCTION TO CDOT

Fill in the blanks :

1. CDOT system employs \_\_\_\_\_ switching configuration.
2. The four basic modules of CDOT –DSS MAX are \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, And \_\_\_\_\_.
3. The Remote Switch Unit is parented to main exchange using \_\_\_\_\_.
4. \_\_\_\_\_ provides control message communication between two Base Modules.
5. Data storage is done in \_\_\_\_\_.
6. IOM supports up to \_\_\_\_\_ serial ports for VDU.
7. Only \_\_\_\_\_ numbered BM's can be configured as RSU.

## 2. CDOT DSS MAX ARCHITECTURE

**Fill in the Blanks:**

1. Duration of Time slot is \_\_\_\_\_
2. A frame has \_\_\_\_ Number of channels
3. The \_\_\_\_\_ of every frame carries FAW and ALM information.
4. TS16 of frame0 carries \_\_\_\_\_
5. The digital stream of \_\_\_\_\_ is called as basic or first order PCM.
6. \_\_\_\_\_ and \_\_\_\_\_ are the two types of Digital Switching
7. In space switch \_\_\_\_ number remains same while \_\_\_\_\_ changes.
8. In time switch \_\_\_\_ number changes while \_\_\_\_\_ remain same.
9. Base module interfaces \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
10. Analog to digital conversion is function of \_\_\_\_\_
11. Provision of special circuits like announcements is done in \_\_\_\_\_.
12. CNF card supports \_\_\_\_\_ party conference.
13. ANN card supports \_\_\_\_ user friendly announcements
14. Power supply unit in ATU provides \_\_\_\_\_ and \_\_\_\_\_.
15. In DTU one set of \_\_\_\_\_ and \_\_\_\_\_ provide one E-1 interface.
16. \_\_\_\_\_ is required to provide ISDN BRI/PRI.

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17. With one ISTU a maximum of \_\_\_\_\_ B channels are available
  18. \_\_\_\_\_ is required to support access network
  19. \_\_\_\_\_ is the master controller in BM
  20. \_\_\_\_\_ and \_\_\_\_\_ form Base processor Unit
  21. CM-XL provides connectivity to \_\_\_\_\_ BM's
  22. The cards used to locally generate clock in CM-L and CM-XL are \_\_\_\_\_ and \_\_\_\_\_ respectively.
  23. Network synchronization is done by \_\_\_\_\_
  24. IOM consists of duplicated \_\_\_\_\_
  25. IOP is connected to AP/BP via \_\_\_\_\_ links.
  26. The telephony software for handling lines, trunks is controlled by \_\_\_\_\_ Processors
  27. \_\_\_\_\_ Record has complete detail of call and is used to extract bill.
  28. \_\_\_\_\_ Controller performs test on external lines, trunks.
  29. Termination capacity of Line Module is \_\_\_\_\_ analog lines
  30. Each LM has \_\_\_\_\_ Terminal Units
  31. When CDOT DSS MAX is configured as TAX it can support \_\_\_\_\_ Trunks
  32. Ideally traffic carrying capacity of MAX-XL is \_\_\_\_\_ erlangs
  33. \_\_\_\_\_ and \_\_\_\_\_ are the two types of Process
  34. Ideally traffic carrying capacity of MAX-L and MAX-XL is \_\_\_\_\_ and \_\_\_\_\_ respectively.
  35. Base processor has capacity of handling \_\_\_\_\_ BHCA

**Mention True or False**

1. The digital stream of 2 Mbps is called as basic or first order PCM.
2. Provision of special circuits like announcements is done in AM.
3. In time switch TS number remains same while PCM highway changes
4. In space switch TS number remain same while PCM highway changes
5. Signaling unit module (SUM) is required to support CCS7 signaling.
6. Any number of SUM can be equipped in the exchange depending on capacity
7. ISTU has to be directly connected to Time switch unit on 8 Mbps PCM link
8. CNF card supports six party conference.

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9. ATU/DTU can be used in concentration with ISTU
  10. Any one ATU or DTU can be replaced by SUM frame
  11. Hardware for VU and SU are different
  12. BPU is implemented as duplicated controller
  13. BM can directly communicate with AM
  14. BM can provide local switching and metering in standalone mode of RSU.
  15. CM-L provides connectivity to 32 BM's
  16. Clock distribution is done by Central module
  17. The Clock may be locally generated or derived externally
  18. Network synchronization is done by AM
  19. In IOP software loading, booting can be performed from any terminal
  20. Initialization of system involves loading of code and data from IOP to system
  21. Clock is locally generated in each BM
  22. IOP uses Windows as Operating system.
  23. Dynamic process are created at the time of system initialization and remain alive throughout the life of system
  24. BHCA will alone decide the capacity of Exchange
  25. A BM can be concentrated with 3 LM's to provide 2024 analog lines.
  26. Each BM has 6 Terminal units
  27. Analog Terminal Unit can support any combination of lines and trunks in multiple of 8
  28. CDOT DSS MAX cannot be configured as TAX
  29. BHCA handling capacity of BP can be enhanced by upgrading the processor card
  30. For security reasons database is kept locked by database subsystem

### 3. ADD ON MODULES

- |    | <b><u>State True or false</u></b>            | 12 marks |
|----|--|----------|
| a) | CM provides for 16 BMs in MAX-L              | ( )      |
| b) | APU is housed in BM1 of MAX-XL               | ( )      |
| c) | PSM card is used for connecting BMs in MAX-L | ( )      |
| d) | CML card is used for suppressing noise       | ( )      |

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- e) Clock signals require proper termination in CM ( )
  - f) PSS cards used for space switching ( )
  - g) PSM card is used to connect RBM ( )
  - h) NSC can be synchronized to network clock ( )
  - i) Synchronisation is not required for data communication ( )
  - j) AM communicates directly with BM ( )
  - k) BPC supports 8,00,000 BHCA ( )
  - l) CM is responsible for space switching ( )

12) **Choose the correct answer from the options** 14 marks

- a) ATU is used for interfacing \_\_\_\_ analog terminations (32, 64, 128)
- b) DTU is used for \_\_\_\_\_ interfaces ( Analog, digital)
- c) TIC card is used for controlling \_\_\_\_ terminal groups ( 2, 3, 4)
- d) TIC communicates with BPU using \_\_\_\_ kbps link (32,64,128)
- e) The concentration ratio between TU and Time switch is \_\_\_\_\_ (4:1, 2:1, none)
- f) IOP communicates with AP using \_\_\_\_\_ link (cms, hdlc, ladv)
- g) IOP to IOP link speed is \_\_\_\_ kbps (64,128,256)
- h) IOP to console link is \_\_\_\_\_ (x.25, async, sync)
- i) IOP to BP link speed is \_\_\_\_\_ kbps (64,128, 96)
- j) Printer port in IOP is \_\_\_\_\_ ( Serial, parallel)
- k) IOP-VH uses \_\_\_\_\_ Processor (68000,68030,68040)
- l) Number of ASIO ports in IOP are \_\_\_\_\_ ( 4, 8,16)
- m) NON-urgent alarms are indicated by \_\_\_\_ color leds ( Green, Red, Yellow)
- n) Billing data downloaded from BM at \_\_\_\_\_ intervals ( 30 mts, 60 mts, daily)

13) Mention any three functions of APU 3 marks

14) What are the functions of ADP 3 marks

15) **State true or false and correct if false** 18x2=36 marks

- a) Any one of the ATUs in a BM can be replaced by VU to provide V5.x
- b) One VU can support a max of 10 ANRAX
- c) ANRAX must be terminated on home BM

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- d) BMS used for control messages
  - e) LADP signaling used in BMS
  - f) BPC card can handle 8,00,000 BHCA
  - g) IOP communicates with each other using ccs#7 signalling
  - h) Exchange administration is done from AM
  - i) Windows os is used in IOP
  - j) VHC card is used for connecting terminals and console
  - k) CDRAM can be used for data backup in IOP
  - l) Maximum number of HDLC links are 10
  - m) RS232 serial links used to connect terminals and printers
  - n) ISTU used for BRI and PRI lines
  - o) ATU is used for LCC cards
  - p) analog trunks can be terminated in DTU
  - q) TSU is used for inter BM call switching
  - r) EMF cards can be equipped in DTU

22) **State true or false**

15 marks

- a) SCIC and TIC are same hardware
- b) SCIC interfaces with Service Circuits
- c) TGA is tone generator and answering card
- d) MFC is used as DTMF receiver
- e) 8 mbps link is used for service circuits
- f) HDLC link used between BPU-BMS
- g) 128 kbps HDLC link used from BP to IOP
- h) 64 kbps LADP link used between IOPs
- i) 16 mb memory used in MU
- j) PSU-II is used for BPU
- k) RS-232 link used in BP for console
- l) ESM card is used to connect local BMs in MAX\_XL
- m) 16 MHZ clock is received from SCU
- n) 8 KHZ is sync signal
- o) SAM is controlled by SSC

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## 4. NETWORK SYNCHRONISATION

- 1) Say the below statements true or false
- NSC Card has an on board processor
  - NSC card , CBX card and CCK card form a security block
  - NSC card forms the interface between DTS and CCK
  - The 2.048.Mhz clock and 8Khz sync signal are exchanged between the two copies of NSC
  - CCK is controlled by the NSC through CBX
  - CBX card provides an interface between SSC and SSU
  - In CDOT-DSS MAX-L the local clock is synchronized with network clock using NSE

## 5. BASIC OPERATIONS

Fill in the blanks:

- RESBC stands for \_\_\_\_\_
- Unit ID IOP 5C stands for \_\_\_\_\_RESPC and RESDC loading done in \_\_\_\_\_directory
- The command for setting the site identity is \_\_\_\_\_
- After initialization of the exchanges the passwords of \_\_\_\_\_ and \_\_\_\_\_ accounts have to be changed
- the command for creating the new exchange code is \_\_\_\_\_
- MOD-SPL-NUM command is used for creating system directory numbers of type \_\_\_\_\_ and \_\_\_\_\_
- For displaying the system limits \_\_\_\_\_ command is used
- XCHG-TYPE =4 stands for \_\_\_\_\_ type of CDOT exchange
- If the value of the SPL-RING=1, then \_\_\_\_\_ feature is enabled.
- the default size of medium size trunk group is \_\_\_\_\_in BMDC

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State TRUE or FALSE

1. ARCD-LEN system parameter indicates the number of digits to be prefixed as area code while sending CLI.
2. the maximum BM categories possible are 64
3. The maximum value of PSWD-TAMP-THRS is 10.
4. MIN –SUBS –DIALS value should be always greater than or equal to the number of digits in exchange code.
5. If the value of CCB-CL-CNVRS is 1800 then all the ORD-CCB calls will get cut after 3 mins.
6. Giving shutdown 0 at root prompt means shutdown of IOP will start immediately
7. An RBM cannot be assigned both shared exchange code and unique exchange code
8. Answering circuit creation is done by the command MOD-SYS-DIRNO
9. NON-MTR-LCL governs the charging for intra exchange calls terminating on non-metered numbers
10. the output device for various alarms and reports can be set to VDU only

## **6. SUBSCRIBER LINE ADMINISTRATION**

Fill in the blanks

1. To get a free subscriber directory number \_\_\_\_\_ command is used
2. AISUB-ID specifies the \_\_\_\_\_ and \_\_\_\_\_ address of the AN sub.
3. There are \_\_\_ possible values of LIN-CAT.
4. The value of CAB-ID consists of \_\_\_\_\_-id, \_\_\_\_\_-id and \_\_\_\_\_-id.
5. \_\_\_\_\_ command is used for modifying originating facility and terminating facility of a subscriber.
6. Granted facility can be withdrawn using \_\_\_\_\_ command
7. \_\_\_\_\_ command is used for granting diversion on absence
8. CFB and CFNR stands for \_\_\_\_\_ and \_\_\_\_\_ respectively
9. Q-length in GRNT-QING-FAC for normal sub is \_\_\_\_\_
10. Maximum number of MSNDN added through ADD-MSN-DN command is \_\_\_\_\_
11. For changing the faulty port \_\_\_\_\_ command is used.

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12. For getting a list of subscribers with specific characteristics \_\_\_\_\_ command is used.
  13. A given number can be unfreezed using \_\_\_\_\_ command.
  14. The calls that can wait for BS can be modified using \_\_\_\_\_ command.

State true or False

1. Any sub data modification possible only when the status of the line is OOS-OPR.
2. Once the mode is selected as NU-TONE while deleting a Sub, it can be changed to any other mode in MOD-ANN-MODE command.
3. It is not possible to unfreeze the directory numbers up to a specific date
4. It is not possible to change the TEN keeping the same directory number
5. 'control E ' keys are used to reach the end of all parameters and then execute the command
6. It is not possible to get the detail billing for local calls
7. The granting of a facility is required only when some addition data is required which cannot be given in the command being used for registration
8. At any instant , the service may be activated/deactivated by the administrator only
9. By the DEL-GVN-ALM command alarm booked by operator only are deleted
10. Hunt group is used for both PSTN and ISDN sub but DDI is used only for ISDN sub
11. The directory numbers should have been created and its status should be OOS-OPR before they become member of the hunt group.
12. A mix of analog sub and ISDN sub in a single hunt group is allowed
13. It is possible to unfreeze only 60 directory numbers at a time
14. The member TEN of a Hunt group can be defined as incoming only of both way or both
15. The characteristics of the DDI users for originating as well as terminating calls is recognized by the PDDI number



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## 7. CAS AND CCS #7 SIGNALLING

### Fill in the blanks

1. MTP stands for \_\_\_\_\_
2. CCS system transfer signals at a rate of \_\_\_\_Kbps
3. CCS7 capability in CDOT is provided by \_\_\_\_\_ module
4. Any node with a capability of handling CCS7 is termed as \_\_\_\_\_
5. The two sub layers of TCAP are \_\_\_\_\_ and \_\_\_\_\_.
6. The BM containing the SUM is called the \_\_\_\_\_ BM.

### State true or false

1. Rerouting is possible in CAS
2. There are 2 levels of MTP in CCS7 protocol model
3. Level four comprises of user parts
4. TU cannot be replaced by SUM in CDOT
5. Message handling is done by level 3
6. MTP cannot control the number of signaling message links
7. SCCP provides connection oriented and connection less services

## 8. SIGNALLING UNIT MODULE

### Fill in the blanks

1. Maximum number of SHM cards in a SUM is \_\_\_\_\_
2. The frame type for equipping SUM is \_\_\_\_\_
3. \_\_\_\_\_ number of C.85 terminals required for internal message communication of the SUM with the home BM.
4. \_\_\_\_\_ message is sent to preceding exchange when called party answers the call
5. TGP-STA in CRE-TGP should always \_\_\_\_\_

### State true or false

1. SUM can be equipped in RBM
2. In BMDC , SUM is equipped
3. ACM is a part of ringing phase

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4. No 7 TEN has 5 sub fields
  5. ACCS-CD-NPFX parameter is used for access code suppressing in case of STD/ISD calls in o/g trunks

## **9. ACCESS NETWORK IMPLEMENTATION**

- 1) Say true or false, if false correct it.
  - a) H/W of VU is same as that of SU the difference is only S/W
  - b) One BM can support Maximum 3072. v5 subscribers
  - c) SU and VU can not be concentrated together
  - d) One BM can interface maximum 14 v5.2 interfaces
  - e) While creating AN sub, AISUB-ID is to be given instead of TEN no
  - f) Status of AN SUB is changed to INS by FRC-TRM-INS.
  - g) Two CSU load Cards (CUL) are required in copy ONE only of VU
  - h) VU can not be configured in RBM

## **10. RBM**

- 1) Say true or false, if false correct it. 12
  - a) RBM can have different area code than main exchange
  - b) Provision is there to block local calls between Main and RBM
  - c) RBM does not support trunks and Junctions beyond RBM
  - d) Emergency services in RBMSA is not possible
  - e) Call shifting, during DTK going faulty of RBM, will take place within the same copy of TSC of RBM
  - f) Separate clock cable is extended from CM to RBM

## **11. CDOT-IN**

*Fill in the blanks with correct answers*

1. In IN, SSP communicates with SCP through \_\_\_\_\_ network ( CAS, CCS#7)
2. \_\_\_\_\_ contros the basic call processing and call flow as directed by SCP

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( SSP / IP)

3. \_\_\_\_\_ does the detailed billing and charge related functions for IN services.

( SCP/SSP)

4. \_\_\_\_\_ used to carry out the IN services data creation and management functions.

(SMP/IP)

5. \_\_\_\_\_ interacts with the user by sending announcements, requesting for PIN, password etc and also receives DTMF tones and converts into digits. ( IP/SMP)

## 12. TRAFFIC ADMINISTRATION

### ONE MARK QUESTIONS

*Fill up the blanks*

2. \_\_\_\_\_ data is used to produce call detail records.

3. \_\_\_\_\_ command displays all active traffic reports

4. The command used to stop the traffic observation is \_\_\_\_\_

5. While displaying the traffic reports in case of trunk group reports, module number should be specified as \_\_\_\_\_ ( AM / TRK\_BM )

*State TRUE of FALSE*

6. After executing the command DISPL-SUB-TRFINF, for a specified subscriber, the counters will get reset to zero. (TRUE / FALSE)

7. SUB-TRFINF counters are getting reset at 00:00 hours daily. (TRUE / FALSE)

8. After executing the command DISPL-TRK-TRFINF, for a specified trunk, the counters will get reset to zero. (TRUE / FALSE)

9. TRK-TRFINF counters are getting reset at 00:00 hours daily. (TRUE / FALSE)

10. For getting MF signalling analysis report for MF signaled trunk, the trunk should be in MF signalling analysis. (TRUE / FALSE)

11. While displaying the traffic observation reports, TO-DATE should be greater than or equal to FRM-DATE. (TRUE / FALSE)

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## 13.BILLING ADMINISTRATION

### ONE MARK QUESTIONS

*Fill in the blanks with correct answers*

1. The command is to be executed before taking the printout of meter readings is \_\_\_\_\_
2. The current meter readings of the subscriber can be retrieved by the command \_\_\_\_\_
3. The two types of detailed billing records are \_\_\_\_\_ & \_\_\_\_\_
4. There are \_\_\_\_\_ possible categories based on which charging is done.
5. The CRI used for charging the \_\_\_\_\_, should have initial charge as '0'
6. The CRI used for charging the \_\_\_\_\_, should have initial charge as '1'
7. The command for adding the TGP for billing observation is \_\_\_\_\_
8. The command for removing the TGP from billing observation is \_\_\_\_\_
9. To interrogate day types of the year following command is to be used \_\_\_\_\_  
( DISPL-DAY-TYP / DISPL-TYP-DAY )
10. To interrogate the traffic zone for a day type the following command is to be issued. \_\_\_\_\_  
(DISPL-TYP-DAY / DISPL-DAY-TYP )
11. The command to be issued to modify the charge units for different special services is \_\_\_\_\_
12. With the command MOD-SUB-CRG, it is possible to define charging for \_\_\_\_\_  
( Local calls / Transit calls)
13. In the command MOD-SUB-CRG , if the CRG-RTN = \_\_\_\_\_, then the local call will get barred between the BMs of the defined category. (INVALID / 0 )
14. The charging of the calls originated from CCB lines are governed by the system parameter \_\_\_\_\_( PCO-MTR-LCL)
15. The calls from local local PCOs are disconnected after a predefined period as specified by the system parameter \_\_\_\_\_ ( CCB-CALL-DUR)

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## 14. SECURITY MANAGEMENT

### ONE MARK QUESTIONS

1. It should be ensured that the operator is added in both the IOPs at the same time  
(TRUE/FALSE)
2. A given command from an operator on a given terminal can be executed only if the command is allowed from the terminal as well as to that operator.  
(TRUE/FALSE)
3. For deleting/removing the account of an operator, command DEL-OPR should be executed on both the IOPs, separately  
(TRUE/FALSE)
4. For finding out the name and characteristics of the terminal (Port) being used by the operator, key-in the command \_\_\_\_\_  
(DISPL-TRM-ASSGN/ DISPL-TRM-CHAR)
5. Modification of its own Password by the Operator command to be used is \_\_\_\_\_  
(SET-PWD/ MOD-OPR-PWD )
6. An operator's Password can be modified by the Administrator from his console without knowing his/her old password, key-in command \_\_\_\_\_  
(MOD-OPR-PWD/ SET-PWD)
7. While adding an operator against parameter "OPR-NAME" the name filled will be used as login name to identify an operator to the system.  
(TRUE/FALSE)

## 15. COMMAND FILE AND CALENDAR MANAGEMENT

1. State whether the following statements are TRUE or FALSE
  - a. Command file can execute a set of commands at one stretch

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- b. key-in "EXIT" to not save the entries in the specified file and abort command file creation mode
  - c. key-in "QUIT" to save the entries in the specified file and abort the command file creation mode
  - d. Results of command files are stored in a log file.
  - e. For displaying the list of all commands that are going to be issued from the calendar between specified dates and times, key-in the command "DISPL-LIST"
  - f. For displaying entries made in the calendar on specific date, key- in command "DISPL-CAL-LOG"
  - g. For displaying all the entries in the calendar log file between the specified dates, key-in command "DISPL-CAL"
  - h. For displaying entries made in the calendar on specific date, key- in command "DISPL-CAL-LOG"
  - i. For deleting an entry in the system calendar, key-in the command "DEL-CAL"
  - j. For creating a new Text file or updating a text file, key-in command "EXIT"

## **16. SYSTEM BACKUP AND RESTORATION PROCEDURE**

1. Say whether the following statements are TRUE or FALSE
  - 1) Exchange Data Files can not be modified
  - 2) Files Keeping Data about health of the System should be deleted during acute disk space deficiency
  - 3) Exchange Data Backup must be taken once in a three month
  - 4) Billing cycle backup is taken every 15 days
  - 5) COPY-OUT command is used to copy specified files on to Tape

## **17. UTILITIES**

1. State true or false 7
  1. The utilities are available in the BASE cartridge supplied along with the software.

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2. 'RGEN' is the utility used for creating space in the disk.
  3. Tapes can be copied using 'TAPECOPY' utility
  4. The reports generated by RGEN utility are not as detailed as generated by CRP.
  5. The utilities are used from CRP prompt only
  6. 'BMON' is a traffic observation tool
  7. Back up for utilities is not required.

2. Write the utility used against the usage in the space provided.

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Sl No.	usage	Utility / script file
1	To create command file for equipping terminals and cards	
2	To create command file for test- trm	
3	For printing detail bill record	
4	To change the printer port	
5	To display rout related information	
6	To display the trunk status	

## 18. MAINTENANCE PROCEDURES

### **One Mark Questions:**

STATE TRUE OR FALSE

1. Test set no.102 is used for open loop test.
2. Test set no.103 is used for Exchange side tests.
3. Test set no.104 is used for Exchange side tests on lines (Signaling).
4. Test set no.105 is used for Exchange side tests on lines (Codec).
5. Test set no.106 is used for open loop + Exchange side tests on lines (Signalling + Codec).

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6. Test set no.107 is used for closed loop tests on lines.

Fill in the Blanks

7. Test set no.401 is used for testing -----
8. Test set no.402 is used for testing -----
9. Test set no.301 is used for testing -----
10. Test set no.304 is used for testing -----

## 19. SOFTWARE UPGRADATION AND RETROFIT

### One Mark Questions:

Say TRUE OR FALSE

1. Number of AI links have been increased to 14 per BM in case of MBM and 11 in case of SBM.
2. Unequipping of BM is possible through CRP command UNEQ-BM.
3. Seperate area code for RSU and Access network for CLI purpose.

## 20. AN RAX

### One Mark Questions:

1. The C-DOT AN-RAX will provide the ----- level of remoting.
2. ARC communicates with the duplicate ARC through ----- link.
3. Two ACIA links are used for -----and -----.
4. Mother Board will have -----(number of additional strapping for AN RAX.
5. The ARC and ARI cards are connected by ----- cable.
6. Command for creating AI Interface is -----.
7. Command for deleting AI Interface is -----.
8. Command for starting the AI Interface is -----.
9. The value for Distinctive ring and Normal ring is --- & --- respectively.
10. The command to test the Digital trunk status is -----.





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# ANSWERS

## 1. INTRODUCTION TO CDOT

1. TST
2. Base Module, Central Module, Administrative Module, & Input Output Module.
3. PCM Links.
4. Central Module.
5. Input Output Module.
6. 8
7. Even

## 2. CDOT DSS MAX ARCHITECTURE

### Fill in the Blanks:

1. 3.9 micro seconds
2. 32
3. time slot 0.
4. MFAW
5. 2 Mbps
6. Time switching and Space switching
7. TS & PCM.
8. TS & PCM.
9. subscribers, trunks and special circuits.
10. Base module
11. Base module.
12. six.
13. 15
14. logical voltages and ringing current.
15. DTS and DTC.
16. ISTU.
17. 256
18. VU
19. Base Processor Unit
20. BPC and BME
21. 32
22. SCK and CCK.
23. CM

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24. Input Output Processor

25. HDLC

26. Peripheral

27. Call event

28. Terminal Test.

29. 768 analog lines

30. 6 Terminal Units

31. 14500

32. 8000

33. Eternal and Dynamic

34. 4000 and 8000

35. 12,500

**Mention True or False**

1. TRUE
2. FALSE
3. FALSE
4. TRUE
5. TRUE
6. FALSE only one
7. TRUE
8. TRUE
9. FALSE cannot be
10. TRUE
11. FALSE same h/w
12. TRUE
13. FALSE via CM
14. TRUE
15. FALSE 16
16. TRUE
17. TRUE
18. FALSE CM
19. FALSE Only from Console
20. TRUE
21. FALSE CM
22. FALSE Unix
23. FALSE Eternal
24. FALSE Traffic, Termination capacity

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- 25. FALSE 2 LM's
  - 26. FALSE 4 TU
  - 27. TRUE
  - 28. FALSE
  - 29. TRUE
  - 30. TRUE

### 3. ADD ON MODULE

- a) true,
- b) false
- c) false
- d) true
- e) true
- f) true
- g) false
- h) true
- i) false
- j) false
- k) false
- l) true

12)

- a) 128
- b) digital
- c) 4
- d) 64 kbps
- e) 4:1
- f) hdlc
- g) 256 kbps
- h) async
- i) 128 kbps
- j) Serial

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- k) 68040
  - l) 8
  - m) green
  - n) 60

15)

- a) true
- b) false. One VU tub supports 14 ANRAX
- c) true
- d) true
- e) false hdlc signaling
- f) false, HPC card required
- g) false, HDLC signaling
- h) false, IOP
- i) false, UNIX
- j) true
- k) false, tape backup
- l) false, 7
- m) true
- n) true
- o) true
- p) false, Only digital lines (E1/PCM streams)
- q) false, SCU
- r) false, DTS,DTK cards

22)

- a) true
- b) true
- c) true
- d) true
- e) false

- 
- f) true
  - g) true
  - h) false
  - i) true
  - j) true
  - k) true
  - l) false
  - m) true
  - n) true
  - o) true

#### **4. NETWORK SYNCHRONISATION**

1) Say the below statements true or false

- a) TRUE
- b) TRUE
- c) TRUE-
- d) TRUE
- e) TRUE-
- f) TRUE
- g) TRUE

#### **5. BASIC OPERATIONS**

##### **ANS for Fill in the blanks:**

1. Restoration of BASE cartridge
2. IOP 0 & /code/audit
3. set-site-id
4. suadm & admn
5. MOD-XCOD
6. OPERATOR & ANNOUNCEMENT
7. DISPL-SYS-LIM

- 
8. TAX or ILT
  9. distinctive Ringing
  10. 20

**TRUE OR FALSE ANS**

1. TRUE
2. FALSE
3. FALSE
4. TRUE
5. TRUE
6. TRUE
7. FALSE
8. FALSE
9. TRUE
10. FALSE

**6. SUBSCRIBER LINE ADMINISTRATION**

Fill in the blanks ANS:

1. 'DISPL-DIRNO'
2. access interface number & Layer 3 address
3. 8
4. Primary-id , secondary-id & tertiary-id
5. MOD-SUB-FAC
6. WTD-SUB-FAC
7. GRNT-ABS-SRV
8. Call forwarding on Busy and Call forwarding on no reply
9. 10
10. 6

- 
11. MOD-SUB-TEN
  12. DISPL-SUB-LIST
  13. UNFRZ-GVN-DIRNO
  14. MOD-CW

**TRUE OR FALSE ANS**

1. TRUE
2. FALSE
3. FALSE
4. FALSE
5. TRUE
6. FALSE
7. TRUE
8. FALSE
9. FALSE
10. TRUE
11. TRUE
12. FALSE
13. TRUE
14. TRUE
15. TRUE

**7. CAS AND CCS #7 SIGNALLING**

**ANS Fill in the blanks**

1. Message transfer part
2. 64Kbps
3. Signaling unit module
4. Signaling point
5. Transaction Sublayer (TSL) and Component Sublayer (CSL).
6. "home" BM.



---

TRUE OR FALSE

1. FALSE
2. FALSE
3. TRUE
4. FALSE
5. TRUE
6. FALSE
7. TRUE

## **8. SIGNALLING UNIT MODULE**

Fill in the blanks

1. 8
2. Signaling unit
3. Two
4. ANM
5. Both way

**State true or false** ANS

1. FALSE
2. FALSE
3. TRUE
4. FALSE
5. TRUE

## **9. ACCESS NETWORK IMPLEMENTATION**

1) Say true or false, if false correct it.

- i) TRUE

- 
- j) TRUE
  - k) TRUE
  - l) TRUE
  - m) TRUE
  - n) FALSE, BY PUT-TRM-INS
  - o) TRUE
  - p) FALSE

## 10. RBM

- .
- 1)
- a) TRUE
  - b) TRUE
  - c) FALSE
  - d) FALSE
  - e) TRUE
  - f) FALSE

## 11. CDOT-IN

### ONE MARK QUESTIONS

*Fill in the blanks with correct answers*

- 1. CAS
- 2. SSP
- 3. SCP
- 4. SMP
- 5. IP

---

## 12. TRAFFIC ADMINISTRATION

### ONE MARK QUESTIONS

*Fill up the blanks*

1. CER (Call Event Record)
2. DISPL-TRF-RPT
3. STOP-TRF-RPT
4. AM

*State TRUE of FALSE*

1. TRUE
2. TRUE
3. TRUE
4. TRUE
5. TRUE
6. TRUE

## 13. BILLING ADMINISTRATION

*Fill in the blanks with correct answers*

1. FMT-BLG-CNTR
2. DISPL-SUB-MTR
3. NCBR & SSBR
4. 32
5. Transit call
6. Out going call
7. ADD-TGP-BLG
8. REM-TGP-BLG
9. DISPL-DAY-TYP
10. DISPL-TYP-DAY
11. MOD-SSRV-CRG
12. Local calls
13. INVALID
14. PCO-MTR-LCL
15. CCB-CALL-DUR

---

## 14. SECURITY MANAGEMENT

### ONE MARK QUESTIONS

1. TRUE
2. TRUE
3. TRUE
4. DISPL-TRM-ASSGN
5. SET-PWD
6. MOD-OPR-PWD
7. TRUE

## 15. COMMAND FILE AND CALENDAR MANAGEMENT

TRUE or FALSE answers:

- 1) T
- 2) F
- 3) F
- 4) T
- 5) F
- 6) F
- 7) F
- 8) F
- 9) T
- 10) F

## 16. SYSTEM BACKUP AND RESTORATION PROCEDURE

1. T
2. T
3. F Monthly
4. T
5. T

---

## 17. UTILITIES

1.
  - 1.False
  - 2.False
  - 3.True
  - 4.True
  - 5.False
  - 6.False
  - 7.True

2.
  1. equip
  2. tst
  3. ncbprn
  4. change-port
  5. routtrf2\_2
  6. trksts2\_2

## 18. MAINTENANCE PROCEDURES

### One Mark Questions:

1. TRUE
2. TRUE
3. TRUE
4. TRUE
5. TRUE
6. TRUE
7. DTS Card
8. DTC Card
9. MFC
10. TOGC

---

## 19. SOFTWARE UPGRADATION AND RETROFIT

### One Mark Questions:

1. TRUE
2. TRUE
3. TRUE

## 20. AN RAX

### One Mark Questions:

1. Second
2. HDLC
3. VDU & debugging terminal
4. 20
5. 60 pin flat
6. CRE-AI
7. DEL-AI
8. START-AI
9. 1 & 2
10. TST-DTK

## 21. INSPECTION GUIDE

1. TRUE.
2. FALSE.
3. TRUE
4. FALSE
5. TRUE.
6. FALSE.
7. TRUE.
8. FALSE
9. TRUE
10. FALSE.